



# UNITED STATES PATENT AND TRADEMARK OFFICE

*an*  
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,550	05/02/2002	Eddy B. Boskamp	GEMS8081.091	9994
27061	7590	02/11/2004	EXAMINER	
ZIOLKOWSKI PATENT SOLUTIONS GROUP, LLC (GEMS) 14135 NORTH CEDARBURG ROAD MEQUON, WI 53097			LIN, JOYUH	
		ART UNIT	PAPER NUMBER	
		3737		

DATE MAILED: 02/11/2004  
*5*

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/063,550	BOSKAMP, EDDY B. <i>CJS</i>
	Examiner Jeoyuh Lin	Art Unit 3737

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 04 November 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-4, 6-8, 10-18 and 20-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-4, 6-8 and 10-28 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ .
- 4) Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_ .
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_ .

**DETAILED ACTION**

**Entry of Amendment**

1. Applicant's amendment, filed on November 4, 2003 as paper No. 5, is acknowledged. Claims 1-4, 6-8, 10-18, and 20-28 are currently pending.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

-Claims 1, 2, 4, 6, 7, 17, 18, 20-23, and 25-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Leussler (US 5,245,288).

Leussler teaches a wireless rf magnetic resonance transmission apparatus (Column 1, lines 46-52), comprising the following:

-Transmitter and receiver, as in claim 1, 7, and 26. (Column 1, lines 45-52)

-Modulator, as in 2. (Column 5, lines 58-68 and column 6, lines 1-5)

-Receiver located remotely from MRI apparatus, (Column 2, lines 3-35) as in 4 and 25.

-Wherein transmitter transfers signals out of a bore. (Column 3, lines 44-55), as in 6 and 27

Leussler fails to teach acquiring power from a B field, as in 17. However, it is inherent in the art of magnetic resonance imaging that the B field, understood to

mean magnetic field, would be generated when nuclei in the subject is excited by a gradient field.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

-Claims 3, 8, 10, 11-16, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leussler, as in claim 1 above, and further in view of Schotz. (US 5,581,617)

Leussler meets all the claims, including a rechargeable battery, as in 21, (Column 2, lines 5-10) except that it fails to teach operating at the wireless device at UHF frequency, and more specifically, at 900 MHz. Schotz teaches a system for transmission of signals using high frequency carrier, comprising transmission of signals at 900 MHz. (Column 2, lines 40-50) It would have been obvious to one of ordinary skill in the art at the time the invention to adapt Schotz's teachings to Leussler's device to allow for proper transmission while maintaining a high signal-to-noise ratio.

-Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Leussler, as applied to claim 1 above, and further in view of Goto. (US 6,218,834 B1)

Leussler meets all the claims except that it fails to teach a rectifier. Goto teaches a MR signal processing system, comprising a rectifier. (Column 1, lines 58-62) It would have been obvious to one having ordinary skill in the art at the time the invention was

made to adapt Goto's teachings to Leussler's device such that MR signals could be corrected.

***Response to Arguments***

4. Applicant's arguments with respect to claims 1-4, 6-8, 10-18, and 20-28 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeoyuh Lin whose telephone number is (703) 306-5990. The examiner can normally be reached on m-f, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Ruhl can be reached on (703) 308-2262. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-0758.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

JYL

JYL  
February 6, 2004



DENNIS W. RUHL  
SUPERVISORY PATENT EXAMINER